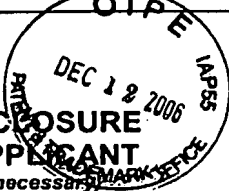


Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/650,409
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Filing Date	August 27, 2003		
		First Named Inventor	Mao		
		Art Unit	2644		
		Examiner Name	Unassigned		
Sheet	1	of	1	Attorney Docket Number	SONYP028

## U.S. Patent Documents

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/JK/	A	6,173,059 B1	01/2001	Huang et al.	
/JK/	B	US 2003/0160862 A1	08/2003	Charlier et al.	
/JK/	C	US 2004/0047464 A1	03/2004	Yu et al.	
/JK/	D	US 2004/0213419 A1	10/2004	Varma et al.	
/JK/	E	US 2005/0047611 A1	03/2005	Mao	
/JK/	F	5,335,011	08/1994	Addeo et al.	
	G				
	H				

## Foreign Patent Documents

Examiner Initial	Cite No. <sup>1</sup>	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
/JK/	I	EP 0 652 686 A1	05/10/95			<input type="checkbox"/>
/JK/	J	EP 1 489 586 A1	12/22/04			<input type="checkbox"/>
	K					<input type="checkbox"/>

## Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/JK/	L	Wilson and Darrell, "Audio-Video Array Source Localization for Intelligent Environments", 2002, IEEE Dept. of Electrical Eng and Computer Science, Massachusetts Inst. of Technology, Cambridge, MA 02139
/JK/	M	Fiala et al., "A Panoramic Video and Acoustic Beamforming Sensor for Videoconferencing", 2004 IEEE, Computational Video Group, National Research Council, Ottawa, CA K1A 0R6
	N	

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	Application Number	10/650,409
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	First Named Inventor	Mao
	Art Unit	2644
	Examiner Name	Unassigned
Sheet 1 of 1	Attorney Docket Number	SONYP028

## U.S. Patent Documents

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/JK/	A	6,339,758	Jan. 15, 2002	Kanazawa et al.	
	B				
	C				
	D				
	E				
	F				
	G				
	H				

## Foreign Patent Documents

Examiner Initial	Cite No. <sup>1</sup>	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number-Kind Code <sup>4</sup> (if known)				
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	J					<input type="checkbox"/>
	K					<input type="checkbox"/>

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Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/JK/	L	OSAMU HOSHUYAMA and AKIHIKO SUGIYAMA, "A Robust Generalized Sidelobe Canceller with a Blocking Matrix Using Leaky Adaptive Filters", Electronics and Communications in Japan, Part 3, Vol. 80, 1997 pages 56 - 65
/JK/	M	LUCAS PARRA and CHRISTOPHER ALVINO, "Geometric Source Separation: Merging Convolutional Source Separation With Geometric Beamforming", Sarnoff Corporation
/JK/	N	SHOKO ARAKI, SHOJI MAKINO, RYO MUKAI and HIROSHI SARUWATARI, "Equivalence Between Frequency Domain Blind Source Separation and Frequency Domain Adaptive Null Beamformers", NTT Communication Science Laboratories

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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)		Attorney Docket No: <b>U.S.</b> <b>SONYP028</b> Applicant: <b>10/650,409</b> <b>Xiadong Mao</b> Filing Date: <b>Group:</b> <b>August 27, 2003</b> <b>2644</b>
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### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class
	A					
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					

### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							

### Other Documents

Examiner Initial	No.	Author, Title, Place (e.g. Journal) of Publication, Date
/JK/	R	OFIR SHALVI and EHUD WEINSTEIN, "System Identification Using Nonstationary Signals," IEEE Transactions on Signal Processing, Vol. 44, No. 8, August 1996
/JK/	S	DAVID BURSHTEN and SHARON GANNOT, "Speech Enhancement Using a Mixture-Maximum Model," IEEE Transactions on Speech and Audio Processing, Vol. 10, No. 6, September 2002
/JK/	T	BARRY D. VAN VEEN and KEVIN M. BUCKLEY, "Beamforming: A Versatile Approach to Spatial Filtering," IEEE ASSP Magazine, April 1998
/JK/	U	JOHN J. SHYNK, "Frequency-Domain and Multirate Adaptive Filtering," IEEE SP Magazine, January 1992
Examiner /Jason Kurr/		Date Considered 03/13/2007

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